

Abstract

In a confocal optical system provided with a light source 13, a first focusing means 14, a second focusing means 16, an aperture 17, and a detector 18, the detector has plural light reception regions. A position displacement is detected by detecting an intensity distribution of an image caused by a position displacement between the focusing spot of the second focusing means 16 and the aperture 17 by the detector 18, and the position displacement is corrected by controlling the aperture position using driving means 19 and control means 20. Also, a position displacement of the aperture 17 in the optical axis direction is detected and corrected on the basis of a change in output of the detector 18 by oscillating the aperture 17 in the optical axis direction.